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**Ms. M. Bender, Principal**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 2: Ratio and Proportional Reasoning

Pre-Assessment

**6.RP.1**

Directions: For questions 1,2, and 3, write each ratio using the other **two** ways.

1. The ratio of 3 inches to 20 feet.
2. The ratio of 26 students: 1 class
3. The ratio of 2 𝑏𝑜𝑦𝑠

*3 girls*

1. You use 3 cups of popcorn kernels to make 24 cups of popcorn. What is the ratio of cups of kernels to cups of popcorn in simplest form? Explain your answer.

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**6.RP.2**

Directions: For questions, 5 and 6, find the unit rate.

5. 60 feet in 4 minutes

1. 48 books for 16 students
2. Describe in words the unit rate of 20 chickens to 120 eggs.

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**6.RP.3b**

Directions: For questions 8 and 9, find the unit rate

1. 250 miles in 4 hours.
2. $60 for 20 people.

**6.RP.3c**

10. Juan made 12 out of 20 free throws. If Bonita shoots 25 free throws, how many free throws does she have to make in order to have the same free-throw percentage than Juan?

*Show your work and explain your answers.*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**6.RP.3d**

11. There are 2 cups in 1 pint. How many cups are in 3 pints? *Show your work and explain your answer.*

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12. There are 3 feet in 1 yard. How many feet are in yards? *Show your work and explain your answer.*

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**6.RP.3a**

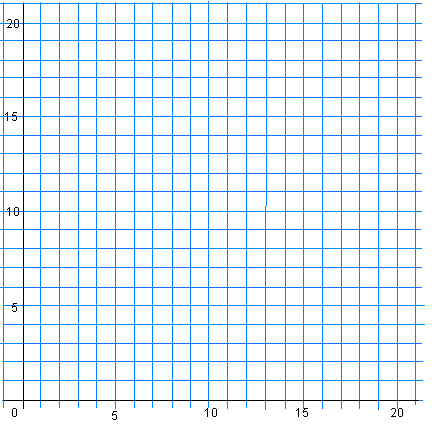
13. Mr. Adelson is planning a field trip. He said that he needs one teacher for every 12 students attending the trip. Complete the ratio table to determine how many students can go on the trip with the given number of teachers.

|  |  |
| --- | --- |
| **Teachers** | **Students** |
| 1 | 12 |
| 3 | 36 |
| 7 |  |
| 10 |  |
| 15 |  |

Explain how you were able to fill in the chart above.

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14. Find the missing values in the table. Then plot the pairs of the values on the coordinate plane.



|  |  |
| --- | --- |
| **X** | **Y** |
| 1 | 3 |
| 2 |  |
|  | 15 |